AMENDMENTS TO THE SEQUENCE LISTING

<u>IN THE SEQUENCE LISTING</u>

Please replace the Sequence Listing of record with the Substitute Sequence Listing enclosed herewith.

REMARKS

Enclosed herewith in full compliance with 37 C.F.R. §§1.821-1.825 is a Substitute Sequence Listing to be inserted into the specification as indicated above. The Substitute Sequence Listing in no way introduces new matter into the specification. Also submitted herewith in full compliance with 37 C.F.R. §§1.821-1.825 is a disk copy of the Substitute Sequence Listing. The disk copy of the Substitute Sequence Listing, file "2005-10-19 0933-0238P.ST25.txt", is identical to the paper copy, except that it lacks formatting.

The specification and claims are amended to identify each nucleotide and amino acid sequence with a unique sequence identification number (SEQ ID NO). The Sequence Listing is amended to reference the present application by filing date and serial number and to correct formatting errors. Furthermore, SEQ ID NOS: 25, 26, and 27 are added to the sequence listing. These sequences are presented in the originally filed specification and do not add new matter into the Sequence Listing. In addition, the Sequence Listing is amended to include detailed descriptions for each artificial and unknown sequence. These descriptions were derived directly from the specification. No new matter is introduced by these amendments.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Dated: <u>October 25, 2005</u>   Respectfully submitted,

By_____ #32868

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Attachments: Disk Copy of Substitute Sequence Listing
                      Paper Copy of Substitute Sequence Listing
                      Copy of Notification of Missing Requirements